## **AMENDMENTS TO CLAIMS**

1. (Currently Amended) A method for managing configuration data for a router, the method comprising the machine-implemented steps of:

querying the router to determine a plurality of functional areas supported by the router; receiving, from the router, data indicating the plurality of functional areas supported by the router;

generating and displaying a plurality of user interface objects on a graphical user interface, wherein each user interface object from the plurality of user interface objects corresponds to configuration data for one of the plurality of functional areas supported by the router;

wherein generating and displaying the plurality of user interface objects further comprises, based on the data indicating the plurality of functional areas supported by the router, determining which user interface objects to generate and display; and

in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,

allowing the user to modify the configuration data corresponding to the particular user interface object to generate modified configuration data; and sending the modified configuration data to the router.

2. (Currently Amended) A machine-readable medium for managing configuration data for a router, the machine-readable medium carrying instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

querying the router to determine a plurality of functional areas supported by the router; receiving, from the router, data indicating the plurality of functional areas supported by the router;

generating and displaying a plurality of user interface objects on a graphical user interface, wherein each user interface object from the plurality of user interface

objects corresponds to configuration data for one of the plurality of functional areas supported by the router;

wherein generating and displaying the plurality of user interface objects further

comprises, based on the data indicating the plurality of functional areas

supported by the router, determining which user interface objects to

generate and display; and

in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,

allowing the user to modify the configuration data corresponding to the particular user interface object to generate modified configuration data; and sending the modified configuration data to the router.

3. (Currently Amended) An apparatus for managing configuration data for a router, the apparatus comprising one or more processors and a memory storing instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:

querying the router to determine a plurality of functional areas supported by the router; receiving, from the router, data indicating the plurality of functional areas supported by the router;

generating and displaying a plurality of user interface objects on a graphical user interface, wherein each user interface object from the plurality of user interface objects corresponds to configuration data for one of the plurality of functional areas supported by the router;

wherein generating and displaying the plurality of user interface objects further comprises, based on the data indicating the plurality of functional areas supported by the router, determining which user interface objects to generate and display; and

in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,

allowing the user to modify the configuration data corresponding to the particular user interface object to generate modified configuration data; and

sending the modified configuration data to the router.

4. (Currently Amended) A method for managing network device configuration data, the method comprising the machine-implemented steps of:

determining which of a plurality of functional areas are supported by a network device; and

generating and displaying a plurality of user interface objects on a graphical user interface, wherein each user interface object from the plurality of user interface objects corresponds to configuration data for one of the plurality of functional areas that is supported by the network device;

wherein generating and displaying the plurality of user interface objects further

comprises, based on which of the plurality of functional areas are

determined to be supported by the router, determining which user interface
objects to generate and display.

- 5. (Original) The method as recited in Claim 4, further comprising the machine-implemented step of selecting the visual appearance of a particular user interface object from the plurality of user interface objects to reflect a state of the configuration data corresponding to the particular user interface object.
- 6. (Original) The method as recited in Claim 4, further comprising the machine-implemented step of in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,

retrieving, from the network device, configuration data corresponding to the particular user interface object,

allowing the user to modify the configuration data corresponding to the particular user interface object to generate modified configuration data, and sending only the modified configuration data to the network device.

7. (Original) The method as recited in Claim 6, further comprising the machine-implemented step of launching one or more of a plurality of application programs to allow the user to modify the configuration data corresponding to the particular user interface object.

- 8. (Original) The method as recited in Claim 6, further comprising the machine-implemented step of changing the visual appearance of the particular user interface object to indicate to the user that the configuration data corresponding to the particular user interface object has been modified.
- 9. (Original) The method as recited in Claim 6, further comprising the machine-implemented step of in response to detecting a user selection of another user interface object associated with committing changes in configuration data on network devices, sending to the network device a request for the network device to implement the modified configuration data.
- 10. (Original) The method as recited in Claim 9, further comprising the machine-implemented step of in response to receiving a notification from the network device that the modified configuration data has been implemented by the network device, changing the visual appearance of the particular user interface object to indicate to the user that the modified configuration data has been implemented by the network device.
- 11. (Original) The method as recited in Claim 4, further comprising the machine-implemented step of in response to determining that a particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device, changing the visual appearance of a particular user interface object from the plurality of user interface objects to visually indicate to a user that the particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device.
- 12. (Currently Amended) The method as recited in Claim 4, wherein the step of determining a-which of the plurality of functional areas are supported by a-the network device includes querying the network device to determine which of the plurality of functional areas are supported by a-the network device.
- 13. (Currently Amended) The method as recited in Claim 4, wherein the step of determining a which of the plurality of functional areas are supported by a the network device includes determining a plurality of functional areas supported by a network device and for which of the

<u>plurality of functional areas</u> the network device and a client have compatible configuration application program interfaces.

14. (Original) The method as recited in Claim 4, further comprising the machine-implemented steps of:

in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,

retrieving, from the network device, configuration data corresponding to the particular user interface object,

displaying the configuration data on a graphical user interface; and

in response to detecting that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device, changing the visual appearance of the particular user interface object to indicate that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device.

15. (Currently Amended) A machine-readable <u>storage</u> medium for managing network device configuration data, the machine-readable medium <u>earrying storing</u> instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

determining <u>which of</u> a plurality of functional areas <u>are</u> supported by a network device;
and

generating and displaying a plurality of user interface objects on a graphical user interface, wherein each user interface object from the plurality of user interface objects corresponds to configuration data for one of the plurality of functional areas that is supported by the network device;

wherein generating and displaying the plurality of user interface objects further

comprises, based on which of the plurality of functional areas are

determined to be supported by the router, determining which user interface
objects to generate and display.

16. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 15, further <u>eomprising storing</u> one or more additional instructions which, when executed by the one

or more processors, cause the one or more processors to perform the step of selecting the visual appearance of a particular user interface object from the plurality of user interface objects to reflect a state of the configuration data corresponding to the particular user interface object.

17. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 15, further <u>storing eomprising</u> one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,

retrieving, from the network device, configuration data corresponding to the particular user interface object,

allowing the user to modify the configuration data corresponding to the particular user interface object to generate modified configuration data, and sending only the modified configuration data to the network device.

- 18. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 17, further <u>storing comprising</u>-one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of launching one or more of a plurality of application programs to allow the user to modify the configuration data corresponding to the particular user interface object.
- 19. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 17, further <u>storing comprising</u> one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of changing the visual appearance of the particular user interface object to indicate to the user that the configuration data corresponding to the particular user interface object has been modified.
- 20. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 17, further <u>storing comprising</u> one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to detecting a user selection of another user interface object associated with committing changes in

configuration data on network devices, sending to the network device a request for the network device to implement the modified configuration data.

- 21. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 20, further <u>storing eomprising</u> one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to receiving a notification from the network device that the modified configuration data has been implemented by the network device, changing the visual appearance of the particular user interface object to indicate to the user that the modified configuration data has been implemented by the network device.
- 22. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 15, further <u>storing eomprising</u>-one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to determining that a particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device, changing the visual appearance of a particular user interface object from the plurality of user interface objects to visually indicate to a user that the particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device.
- 23. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 15, wherein the step of determining <u>a-which of the</u> plurality of functional areas <u>are</u> supported by <u>a the</u> network device includes querying the network device to determine <u>which of the</u> plurality of functional areas <u>are</u> supported by <u>a-the</u> network device.
- 24. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 15, wherein the step of determining <u>a-which of the plurality</u> of functional areas <u>are</u> supported by <u>a the</u> network device includes determining <u>a plurality of functional areas supported by a network device and for which <u>of the plurality of functional areas</u> the network device and a client have compatible configuration application program interfaces.</u>

- 25. (Currently Amended) The machine-readable <u>storage</u> medium as recited in Claim 15, further <u>storing comprising</u> one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:
  - in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,
  - retrieving, from the network device, configuration data corresponding to the particular user interface object,
  - displaying the configuration data on a graphical user interface; and
  - in response to detecting that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device, changing the visual appearance of the particular user interface object to indicate that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device.
- 26. (Currently Amended) An apparatus for managing network device configuration data, the apparatus comprising one or more processors and a memory storing instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:
  - determining which of a plurality of functional areas are supported by a network device; and
  - generating and displaying a plurality of user interface objects on a graphical user interface, wherein each user interface object from the plurality of user interface objects corresponds to configuration data for one of the plurality of functional areas that is supported by the network device;
  - wherein generating and displaying the plurality of user interface objects further

    comprises, based on which of the plurality of functional areas are determined to

    be supported by the router, determining which user interface objects to generate

    and display.
- 27. (Original) The apparatus as recited in Claim 26, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause

the one or more processors to perform the step of selecting the visual appearance of a particular user interface object from the plurality of user interface objects to reflect a state of the configuration data corresponding to the particular user interface object.

28. (Original) The apparatus as recited in Claim 26, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,

retrieving, from the network device, configuration data corresponding to the particular user interface object,

allowing the user to modify the configuration data corresponding to the particular user interface object to generate modified configuration data, and sending only the modified configuration data to the network device.

- 29. (Original) The apparatus as recited in Claim 28, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of launching one or more of a plurality of application programs to allow the user to modify the configuration data corresponding to the particular user interface object.
- 30. (Original) The apparatus as recited in Claim 28, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of changing the visual appearance of the particular user interface object to indicate to the user that the configuration data corresponding to the particular user interface object has been modified.
- 31. (Original) The apparatus as recited in Claim 28, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to detecting a user selection of another user interface object associated with committing changes in configuration data on network devices, sending to the network device a request for the network device to implement the modified configuration data.

- 32. (Original) The apparatus as recited in Claim 31, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to receiving a notification from the network device that the modified configuration data has been implemented by the network device, changing the visual appearance of the particular user interface object to indicate to the user that the modified configuration data has been implemented by the network device.
- 33. (Original) The apparatus as recited in Claim 26, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to determining that a particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device, changing the visual appearance of a particular user interface object from the plurality of user interface objects to visually indicate to a user that the particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device.
- 34. (Currently Amended) The apparatus as recited in Claim 26, wherein the step of determining a-which of the plurality of functional areas are supported by a-the network device includes querying the network device to determine which of the plurality of functional areas are supported by a-the network device.
- 35. (Currently Amended) The apparatus as recited in Claim 26, wherein the step of determining a which of the plurality of functional areas are supported by a network device includes determining a plurality of functional areas supported by a network device and for which of the plurality of functional areas the network device and a client have compatible configuration application program interfaces.
- 36. (Original) The apparatus as recited in Claim 26, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:

in response to detecting a user selection of a particular user interface object from the plurality of user interface objects,

retrieving, from the network device, configuration data corresponding to the particular user interface object,

displaying the configuration data on a graphical user interface; and

in response to detecting that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device, changing the visual appearance of the particular user interface object to indicate that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device.

## 37-54. (Withdrawn)

- 55. (Currently Amended) The method of Claim 4 wherein the configuration data for at least two of the functional areas supported by the network device in the plurality of functional areas share a common configuration data item.
- 56. (Currently Amended) The method of Claim 4, further comprising the steps of: generating and displaying a common user interface object on the graphical user interface, wherein the common user interface object pertains to common configuration data for a common functional area, wherein the common functional area pertains to at least two interfaces of the network device;
  - receiving input that indicates a change to a data item in the common configuration data; and
  - based upon the input, generating the modified configuration data, wherein the modified configuration data indicates changes for the at least two interfaces.
- 57. (Currently Amended) The method of Claim 4, wherein:
  - the step of determining which of a the plurality of functional areas are supported by a the network device includes determining, based on permission data, that a user has permission to access each one or more of the functional areas in the plurality of functional areas that are supported by the network device; and
  - the step of generating and displaying the plurality of user interface objects further comprises, based on which one or more of the functional areas the user has

permission to access, determining which user interface objects to generate and display.

- 58. (New) The machine-readable storage medium as recited in Claim 15, wherein the configuration data for at least two functional areas supported by the network device share a common configuration data item, and further storing one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:
  - generating and displaying a common user interface object on the graphical user interface, wherein the common user interface object pertains to common configuration data for a common functional area, wherein the common functional area pertains to at least two interfaces of the network device;
  - receiving input that indicates a change to a data item in the common configuration data; and
  - based upon the input, generating the modified configuration data, wherein the modified configuration data indicates changes for the at least two interfaces.
- 59. (New) The machine-readable storage medium as recited in Claim 15, wherein: the step of determining which of the plurality of functional areas are supported by the network device includes determining, based on permission data, that a user has permission to access one or more of the functional areas that are supported by the network device; and
  - the step of generating and displaying the plurality of user interface objects further comprises, based on which one or more of the functional areas the user has permission to access, determining which user interface objects to generate and display.
- 60. (New) The apparatus as recited in Claim 26, wherein:
  the configuration data for at least two functional areas supported by the network device
  share a common configuration data item; and

- by the one or more processors, cause the one or more processors to perform the steps of:
  - generating and displaying a common user interface object on the graphical user interface, wherein the common user interface object pertains to common configuration data for a common functional area, wherein the common functional area pertains to at least two interfaces of the network device; receiving input that indicates a change to a data item in the common configuration data; and
  - based upon the input, generating the modified configuration data, wherein the modified configuration data indicates changes for the at least two interfaces.
- 61. (New) The apparatus as recited in Claim 26, wherein:
  - the step of determining which of the plurality of functional areas are supported by the network device includes determining, based on permission data, that a user has permission to access one or more of the functional areas that are supported by the network device; and
  - the step of generating and displaying the plurality of user interface objects further comprises, based on which one or more of the functional areas the user has permission to access, determining which user interface objects to generate and display.